

COMMUNICATIONS METHODS, APPARATUS, COMPUTER PROGRAM
PRODUCTS AND DATA STRUCTURES USING SEGMENT
SEQUENCE NUMBERS

ABSTRACT OF THE DISCLOSURE

An entity of a communications system transmits a segment conforming to a segment format comprising a data portion and a header portion. The header portion includes a field for a sequence number associated with data in the data portion, *e.g.*, a sequence number of byte of data in the data portion. The transmitted segment also
5 includes a segment transmission sequence number. A receiving entity receives the segment and transmits an acknowledgment reflecting the segment transmission sequence number. Responsive to receipt of such an acknowledgment, roundtrip time may be determined. Retransmission timing, *e.g.*, a retransmission timeout (RTO) value, may be adjusted responsive to the determined round trip time.